# *DATA SUPPORT PLAN FOR JWARS*

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*Joint Data Support*

*Charter*

*Improve the Quality and Consistency of DoD Analyses*

- **Data Sourcing, Analysis, and Management for DoD Studies**
  - **Using JAMIP simulations (e.g., Mobility Requirements Study 2005 [MRS-05])**
  - **Using other decision support processes (e.g., Dynamic Commitment, QDR)**

- **Support Joint Warfare System (JWARS) Development and Fielding**

**Broad customer base (Joint Staff, Services, CINCs, OSD)**

In accordance with its charter, JDS attempts to improve DoD analytic efforts by focusing on data sourcing, verification, validation, and management. JDS has typically provided near model-ready data in support for "JAMIP" models and simulations. During development of JWARS, JDS has provided experts to help developers design the model while adhering to the constraints of available data. The focus of this briefing will be on JDS support for JWARS Releases 1.4 and 1.5.

**CURRENT SUITE**

*JAMIP Models*
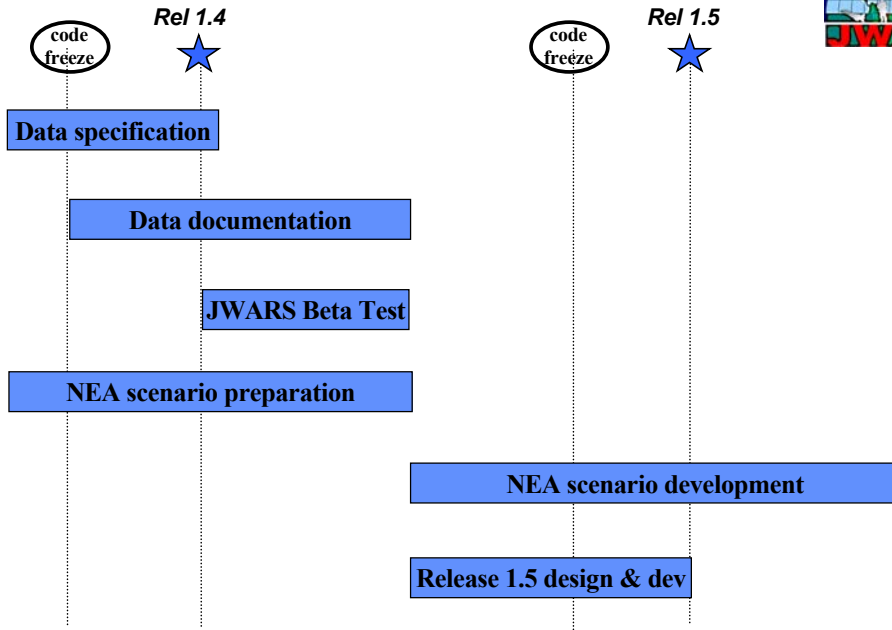
**FUTURE SUITE**
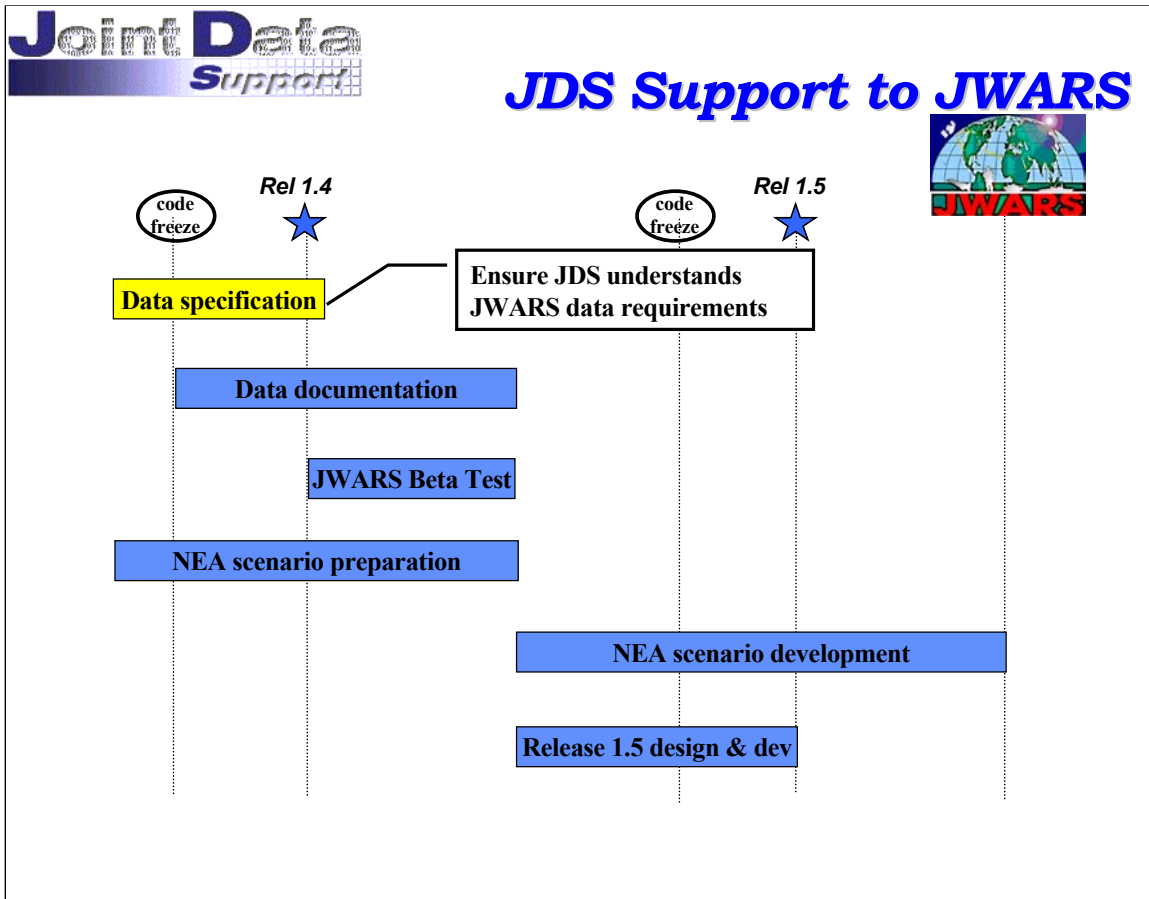
MIDAS

TACWAR

GCAM(ITEM)

ELIST

VIC

EADSIM

As you can see by the diagram, the intent of the JWARS program is to ultimately replace many of the legacy systems. As JWARS approaches Initial Operational Capability (IOC), JDS has begun shifting resources to focus on production of JWARS data.
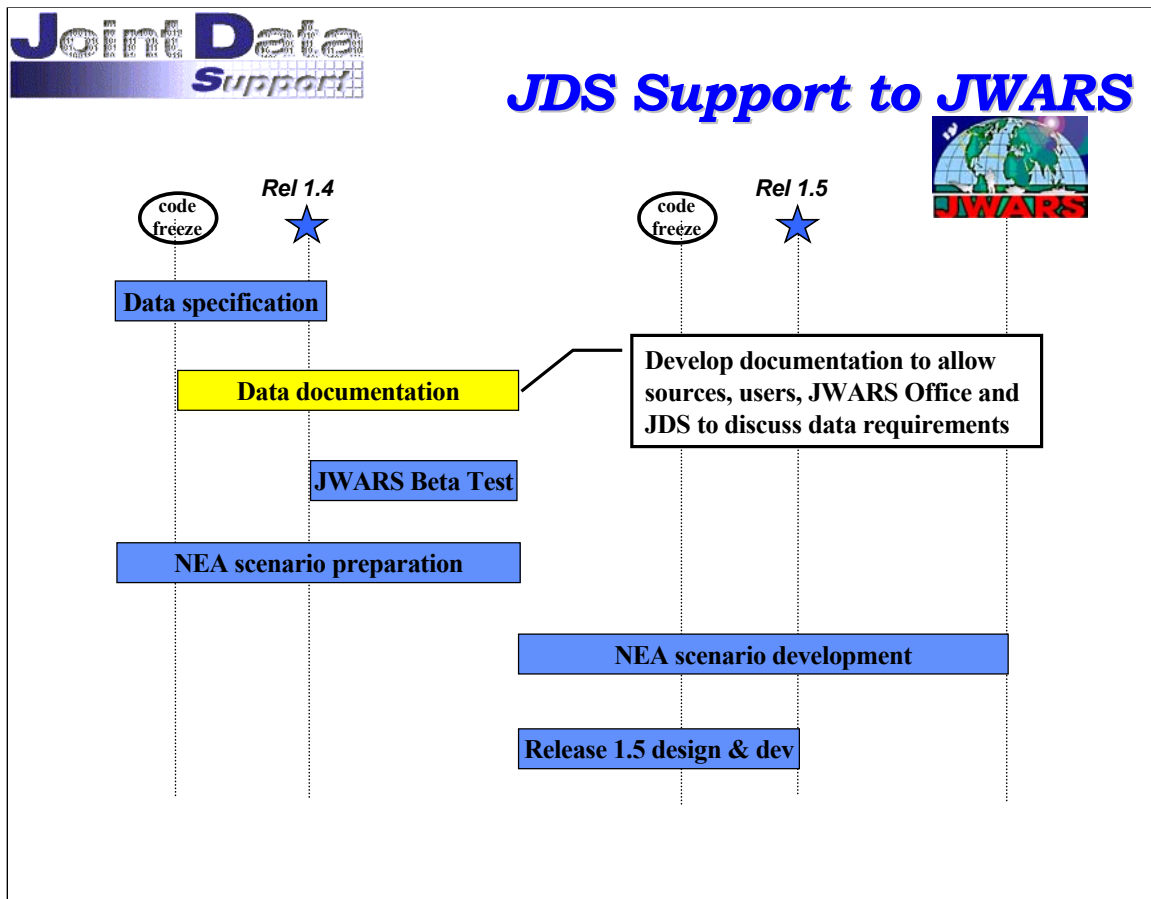
This slide shows our near term support plan for JWARS Releases 1.4 and 1.5. Each of the blocks in this plan will be discussed in more detail as you proceed through this briefing.
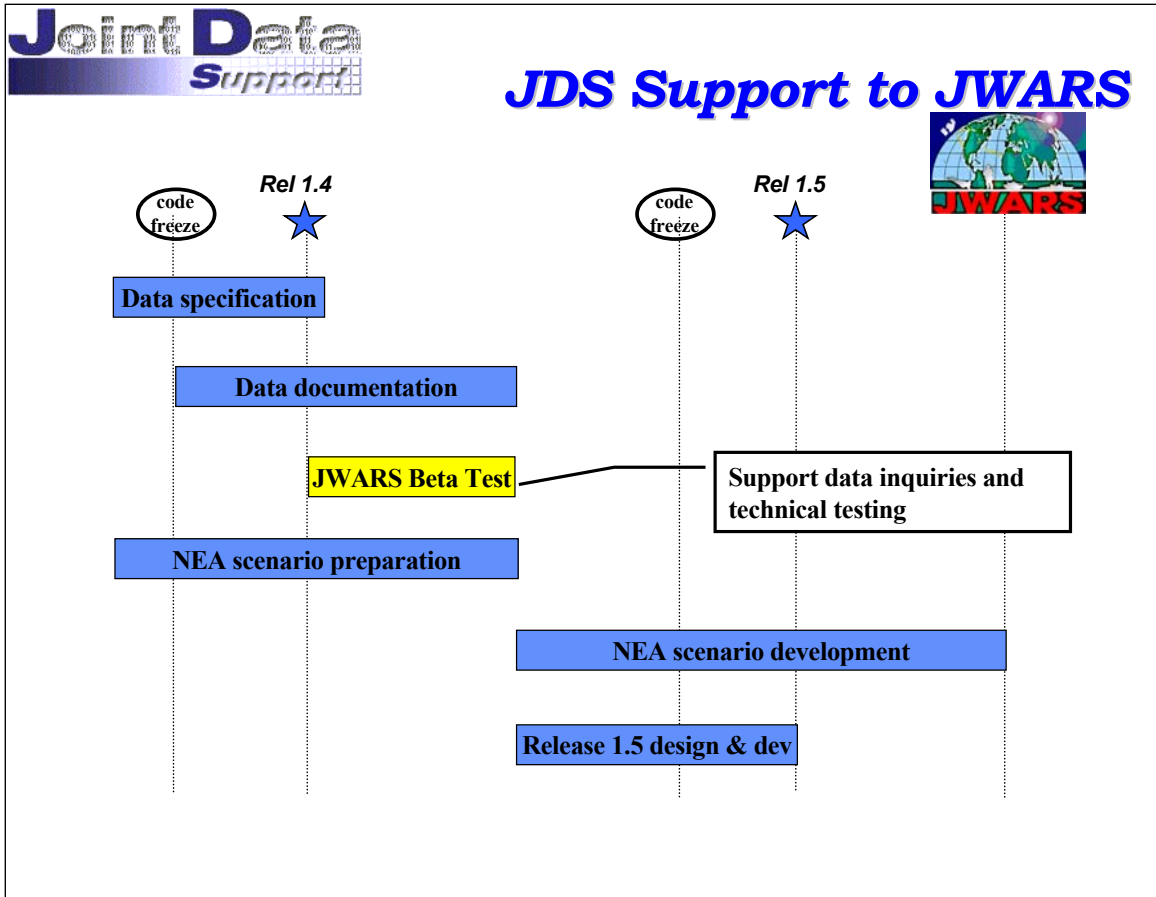
## JDS Support to JWARS

The purpose of our data specification project is to review all of the data tables used for loading data into the JWARS model. The intent is to create a formalized process by which JDS personnel can review these data requirements. JDS personnel will look in detail at the data model in order to:
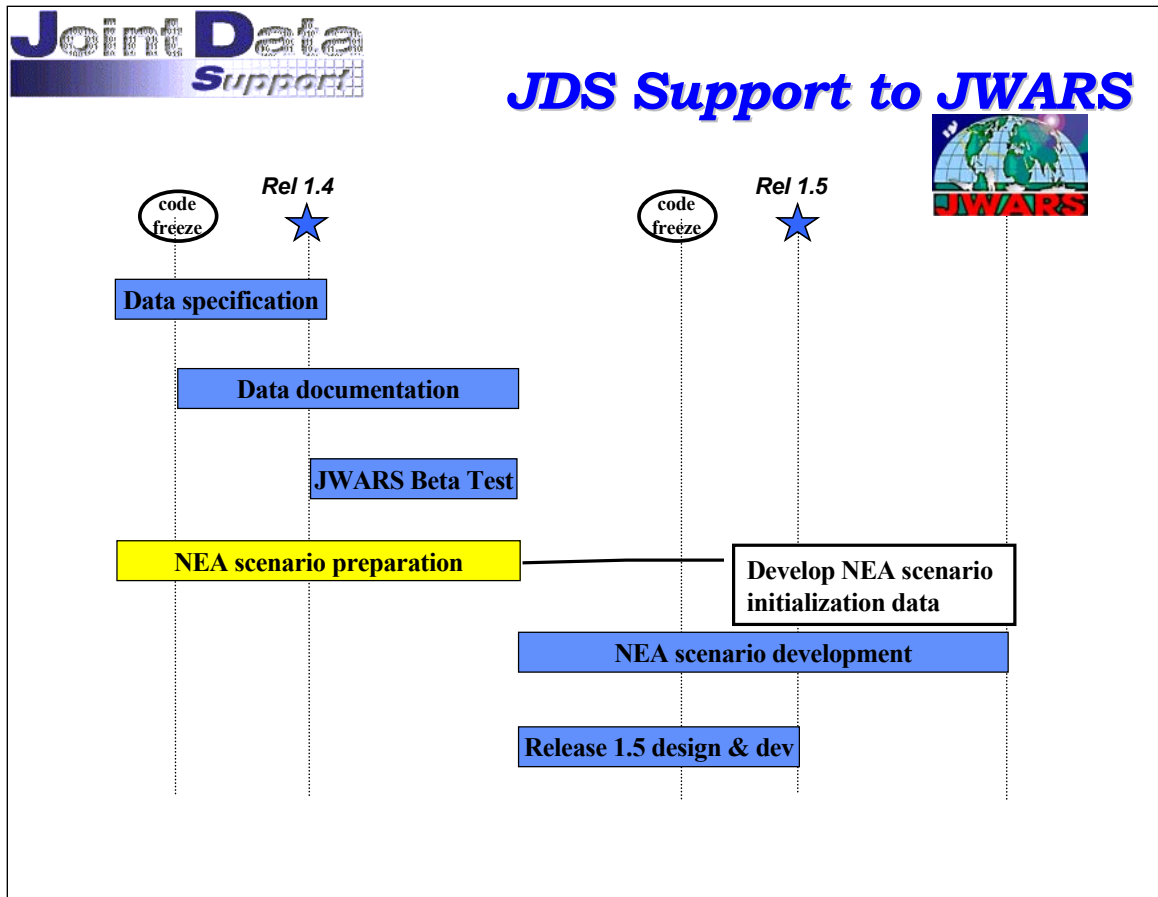
(1) Ensure that the specification of the data tables and columns has been completed to a level of detail such that the data requirement is understood. This includes information such as data definitions, allowable values, and units of measure.

(2) Reconcile inconsistencies and update the data model to reflect the actual data requirements of JWARS. This includes deleting data elements no longer required by the model.

**JDS Support to JWARS**

The intent of our data documentation project is to expand upon data specifications to further promote understanding of JWARS data requirements. Our documentation will include high level concepts describing the overall data architecture, as well as business rules which capture relationships between data tables and data elements (columns within the tables). Business rules can be either technical or functional. An example of a technical business rule is: "Unit names must be in all capital letters." Conversely, an example of a functional business rule is: "JWARS algorithms and implementation require that Direct Support artillery be task-organized within the infantry or armor battalions that they support."

# JDS Support to JWARS

**Rel 1.4**

**Rel 1.5**

code freeze

code freeze

Data specification

Data documentation

JWARS Beta Test ———— Support data inquiries and technical testing

NEA scenario preparation

NEA scenario development
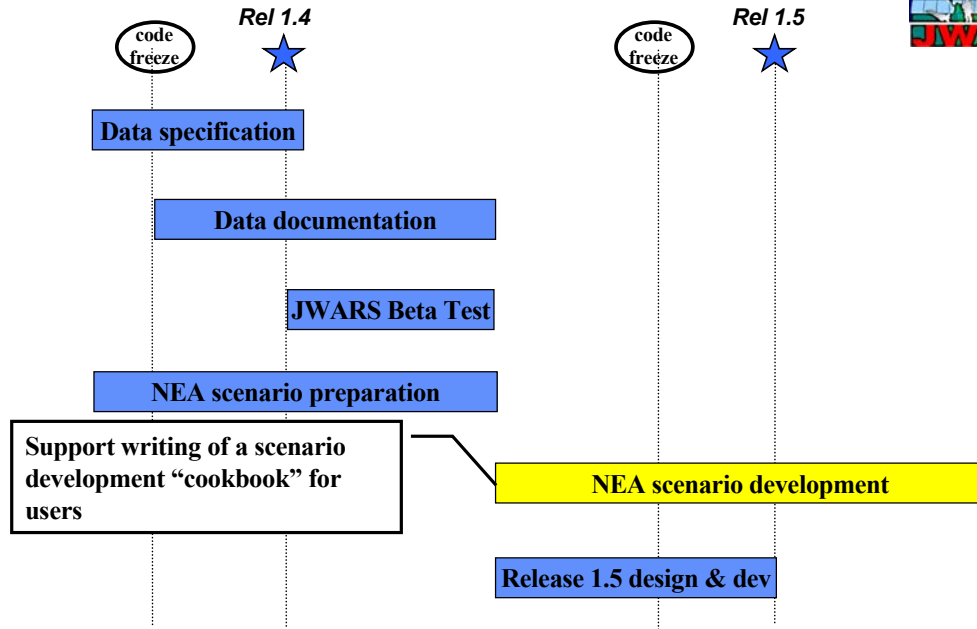
Release 1.5 design & dev

During Beta testing, JDS will have resources ready to support data inquiries which come to us from the JWARS Help Desk and JWARS technical testing. By the term "technical testing", we mean detailed testing that explores the data and code interfaces. Some organizations plan to perform technical testing as part of their Beta testing.
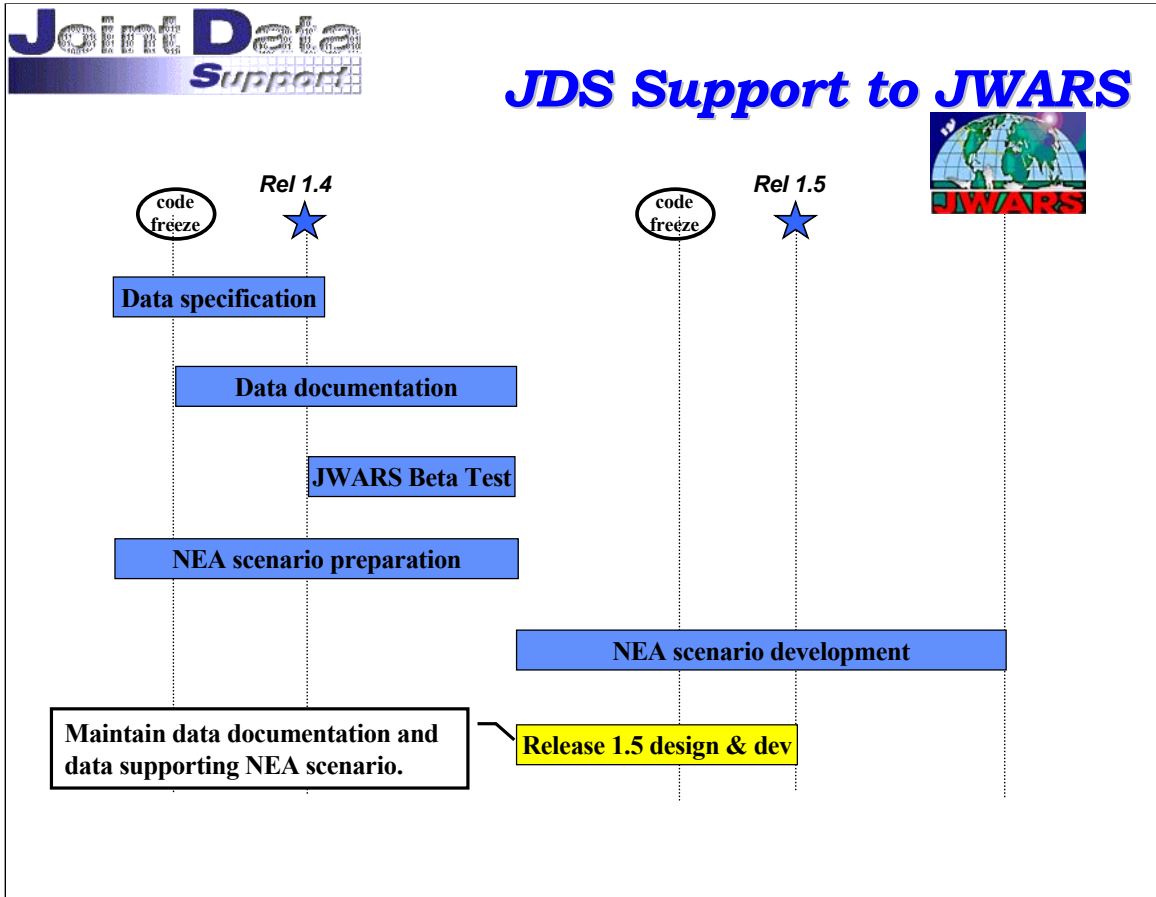
## JDS Support to JWARS



During data specification, documentation, and Beta testing, JDS will also be preparing for development of a North East Asia (NEA) scenario for JWARS. To prepare for this exercise, we will be researching the scenario, data requirements, and potential data sources.

During the "NEA scenario development" phase, JDS will work with the OSD/PA&E Simulations and Analysis Center (SAC) to develop a complete JWARS scenario. The primary purpose of this phase will actually be to establish and document a scenario development process or "cookbook" for JWARS. A by-product of this phase will be a working NEA scenario for use in JWARS.

## JDS Support to JWARS



Concurrent with the NEA scenario and cookbook development , JDS will maintain a staff of personnel dedicated to support the Configuration Control Board (CCB)-led design and development of JWARS Release 1.5.   During Release 1.5, we will be prepared to support new model design efforts and Joint Change Requests (JCRs) which may impact data requirements or the data architecture.

To summarize, you have now seen our near-term activities in support of JWARS development and fielding.  In the future, we plan to support JWARS studies the same way we supported studies using the legacy models.  For more information on our study support process, please see the "Joint Data Support (JDS) Study Support Process" located on our website.